

SUBSTITUTE FORM PTO-1449
(MODIFIED)U.S. DEPARTMENT OF COMMERCE
PATENT AND TRADEMARK OFFICEATTY. DOCKET NO.
07252/008001SERIAL NO.
08/971,090INFORMATION DISCLOSURE
STATEMENT BY APPLICANT
(Use several sheets if necessary)APPLICANT
Zyskind et al.FILING DATE
November 14, 1997

GROUP

(37 CFR 1.98(b))

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
1	AA	5 6 6 5 5 5 0	09/09/97	Roninson et al.			
2	AB	5 6 3 9 5 9 5	06/17/97	Mirabelli et al.			
2	AC	5 2 1 7 8 8 9	06/08/93	Roninson et al.			
	AD						
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	AH						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION

		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION	
							YES	NO
	AL							
	AM							
	AN							

OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)

1	AO	Akhtar, S., et al., "In vivo studies with antisense oligonucleotides," <u>TIPS</u> , Vol. 18, pp. 12-18 (January 1997)
1	AP	Xie, Y., et al., "A ribozyme-mediated, gene 'knockdown' strategy for the identification of gene function in zebrafish," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 94, pp. 13777-13781 (December 1997)
1	AQ	Spann, T., et al., "Mutagenesis and gene identification in <i>Dictyostelium</i> by shotgun antisense," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 93, pp. 5003-5007 (May 1996)
2	AR	Li, L., et al., "tsg101: A Novel Tumor Susceptibility Gene Isolated by Controlled Homozygous Functional Knockout of Allelic Loci in Mammalian Cells," <u>Cell</u> , Vol. 85, pp. 319-329 (May 3, 1996)

EXAMINER

DATE CONSIDERED

EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Zyskind et al.		GROUP	
				FILING DATE November 14, 1997			
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	BA						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	BL						
	BM						
	BN						
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
2	BQ	Mao, J., et al., "Gene Regulation by Antisense DNA Produced <i>in Vivo</i> ," <u>J. Biol. Chem.</u> , Vol. 270, No. 34, pp. 19684-19687 (1995)					
2	BR	Ripalti, A., et al., "Cytomegalovirus-Mediated Induction of Antisense mRNA Expression ... Identification of an Essential Gene," <u>J. Virol.</u> , Vol. 69, No. 4, pp. 2047-2057 (Apr. 1995)					
2	BS	Murphy, C., et al., "A double counter-selection system for the study of null alleles of essential genes in <i>Escherichia coli</i> ," <u>Gene</u> , 155, pp. 1-7 (1995)					
EXAMINER				DATE CONSIDERED			
				1/6/97			
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	CA						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	CL						
	CM						
	CN						
	CO						
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OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
✓	CQ	Inokuchi, Y., et al., "A Hammerhead Ribozyme Inhibits the Proliferation of an RNA Coliphage SP in <i>Escherichia coli</i> ," <i>J. Biol. Chem.</i> , Vol. 269, pp. 11361-11366 (1994)					
~	CR	Diederich, L., et al., "A Versatile Plasmid Vector System for the Regulated Expression of Genes in <i>Escherichia coli</i> ," <i>BioTechniques</i> , Vol. 16, No. 5, pp. 916-923 (1994)					
~	CS	Jacobs, C., et al., "Bacterial cell wall recycling provides cytosolic muropeptides as effectors for β -lactamase induction," <i>The EMBO Journal</i> , Vol. 13, no. 19, pp. 4684-4694 (1994)					
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
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DL							
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DP							
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
L	DD	Lindquist, S., et al., "AmpG, a signal transducer in chromosomal β -lactamase induction," <u>Molecular Microbiology</u> , 9(4), pp. 703-715 (1993)					
R	DR	Chrissey, L., et al. "Internalization of Oligodeoxyribonucleotides by <i>Vibrio parahaemolyticus</i> ," <u>Antisense Research and Development</u> , 3, pp. 367-381 (1993)					
A	DS	Gasparro, F.P., et al., "Photoactivatable Antisense DNA: Suppression of Ampicillin Resistance in Normally Resistant <i>Escherichia coli</i> ," <u>Antisense Research and Development</u> , 1, pp. 117-140 (1991)					
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	EA						
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	EL						
	EM						
	EN						
	EO						
	EP						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
1	EQ	Hastie, N., et al., "Analysis of mRNA populations by cDNA-mRNA hybrid-mediated inhibition of cell-free protein synthesis," <u>Proc. Natl. Acad. Sci. USA</u> , Vol. 75, No. 3, pp. 1217-1221 (1978)					
2	ER	Genbank Accession No. AF000956					
3	ES	Genbank Accession No. M20791					
EXAMINER				DATE CONSIDERED			
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EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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FOREIGN PATENT OR PUBLISHED FOREIGN PATENT APPLICATION							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION YES NO
	FL						
	FM						
	FN						
	FO						
	FP						
OTHER DOCUMENTS (Including Author, Title, Date, Place of Publication)							
	FQ	Genbank Accession No. M14029					
	FR	Genbank Accession No. S67816					
	FS						
EXAMINER				DATE CONSIDERED			
EXAMINER: Initial citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.							

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07252-008001	Application No. 08/971,090
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Zyskind <i>et al</i>	
		Filing Date November 14, 1997	Group Art Unit 1655

U.S. PTO
09/805664
03/13/01

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
<i>h</i>	AA	5,679,523	10/21/97	Li et al.			01/16/96
<i>h</i>	AB	5,955,275	09/21/99	Kamb			03/04/97
	AC						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
<i>h</i>	AD	EP 0 816 511	01/07/98	EPO			X	
	AE	EP 0 837 142	04/22/98	EPO			X	
	AF	WO 98/20161	05/14/98	PCT			X	
	AG	WO 99/28508	06/10/99	PCT			X	
	AH	WO 99/35494	07/15/99	PCT			X	
	AI	WO 99/50462	10/07/99	PCT			X	
	AJ	WO 99/52926	10/21/99	PCT			X	
	AK	WO 99/53079	10/21/99	PCT			X	

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
	AQ	
	AR	
	AS	
	AT	

Examiner Signature <i>h</i>	Date Considered <i>11/16/97</i>
EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.	

Substitute Form PTO-1449 (Modified)	U.S. Department of Commerce Patent and Trademark Office	Attorney's Docket No. 07252-008001	Application No. 08/971,090
Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))		Applicant Zyskind, J. W., et al.	
		Filing Date November 14, 1997	Group Art Unit 1655

JP918 U.S. PTO
09/805664
03/13/01

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA	4,906,742	March 6, 1990	Young, et al.	536	27	July 31, 1986
	AB						
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	AH						
	AI						
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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
1	AQ	Holzmayer TA, Pestov DG, Roninson IB., Isolation of dominant negative mutants and inhibitory antisense RNA sequences by expression selection of random DNA fragments, <i>Nucleic Acids Res</i> 1992 Feb 25;20(4):711-717.
2	AR	Gudkov, A.V., and Roninson, I.B., Isolation of Genetic Suppressor Elements (GSEs) from Random Fragment cDNA Libraries in Retroviral Vectors, <i>Methods in Molec. Biol.</i> , Vol. 69, cDNA Library Protocols, Edited by I.G. Cowell and C.A. Austin, Humana Press, Inc. Totowa, N.Y.
	AS	
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Examiner Signature	Date Considered
	11/26

EXAMINER: Initials citation considered. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute Form PTO-1449
(Modified)

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.
07252-008002

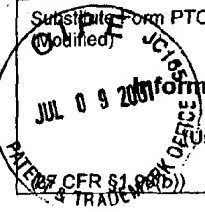
Application No.
09/805,664

**Information Disclosure Statement
by Applicant**
(Use several sheets if necessary)

Applicant
Zyskind et al.

Filing Date
March 13, 2001

Group Art Unit
1645



U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
	AB						
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	AS	6,248,525	Jun 19, 2001	Nilsen	435	6	Nov. 20, 1998
	AT						

Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AU							
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Examiner Signature

Date Considered

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Substitute Form PTO-1449

U.S. Department of Commerce
Patent and Trademark Office

Attorney's Docket No.

07252-008002

Application No.

09/805,664

**Information Disclosure Statement
by Applicant**

(Use several sheets if necessary)

(37 CFR §1.9(b))

Applicant

Zyskind et al.

Filing Date

March 13, 2001

Group Art Unit

1645

U.S. Patent Documents

Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass	Filing Date If Appropriate
	AA						
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Foreign Patent Documents or Published Foreign Patent Applications

Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							

Other Documents (include Author, Title, Date, and Place of Publication)

Examiner Initial	Desig. ID	Document
1	FS	Kernodle, D.S., et al., "Expression of an Antisense hla Fragment in Staphylococcus aureus Reduces Alpha-Toxin Production In Vitro and Attenuates Lethal Activity in a Murine Model," INFECTION AND IMMUNITY, vol. 65, no. 1 (1997), pp. 179-184.
2	FT	Parish, T., et al., "Development and use of a conditional antisense mutagenesis system in mycobacteria," FEMS Microbiology Letters, vol. 154 (1997), pp. 151-157.
	FU	
	FV	

Examiner Signature

Date Considered

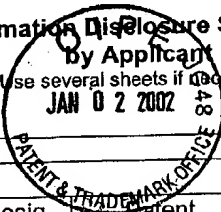
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Substitute Form PTO-1449 (Modified) Information Disclosure Statement by Applicant (Use several sheets if necessary) (37 CFR §1.98(b))	U.S. Department of Commerce Patent and Trademark Office		Attorney's Docket No. 07252-008002	Application No. 09/805,664
	Applicant Zyskind et al.			
	Filing Date March 13, 2001		Group Art Unit 1645	



U.S. Patent Documents						
Examiner Initial	Desig. ID	Patent Number	Issue Date	Patentee	Class	Subclass
<i>[Signature]</i>	AA	6,303,115 B1	10/16/01	George Natsoulis		
	AB					

Foreign Patent Documents or Published Foreign Patent Applications								
Examiner Initial	Desig. ID	Document Number	Publication Date	Country or Patent Office	Class	Subclass	Translation	
							Yes	No
✓	AC	WO 97/48822	12/24/97	WIPO				
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	AE							
	AF							
	AG							

Other Documents (include Author, Title, Date, and Place of Publication)		
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Examiner Signature <i>[Signature]</i>	Date Considered <i>[Signature]</i>
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